

HER1601PT THRU HER1608PT

16.0 AMPS. Glass Passivated High Efficient Rectifiers



Voltage Range 50 to 1000 Volts Current 16.0 Amperes

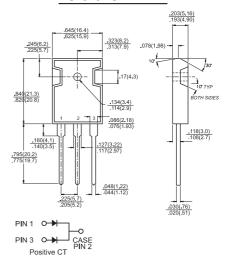
Features

- Dual rectifier construction, positive center-tap
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- ♦ Glass passivated chip junctions
- ♦ Superfast recovery time, high voltage
- Low forward voltage, high current capability
- Low thermal resistance
- ♦ Low power loss, high efficiency
- High temperature soldering guaranteed: 260°C,.16"(4.06mm)from case for 10 seconds

Mechanical Data

- ♦ Cases: TO-3P/TO-247AD molded plastic
- Terminals: Leads solderable per MIL-STD-750. Method 2026
- Polarity: As markedMounting position: Any
- ♦ Mounting torque: 10in-lbs. Max.
- ♦ Weight: 0.2 ounce, 5.6 grams

TO-3P/TO-247AD



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbol	HER 1601PT	HER 1602PT	HER 1603PT	HER 1604PT	HER 1605PT	HER 1606PT	HER 1607PT	HER 1608PT	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	1000	٧
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current $@T_C = 100^{\circ}C$	I _(AV)	16.0								Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	200								Α
Maximum Instantaneous Forward Voltage @8.0A	V _F		1.0			1.3		1.7		V
Maximum DC Reverse Current @ T _C =25°C at Rated DC Blocking Voltage @ T _C =125°C	I _R	10.0 500								uA uA
Maximum Reverse Recovery Time (Note 2) @T _J =25°C	Trr	50 80						nS		
Typical Junction Capacitance (Note 1)	Cj		85					60		pF
Operating Temperature Range	TJ	-55 to +150							${\mathbb C}$	
Storage Temperature Range	T _{STG}	-55 to +150							Ç	

Notes: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts.

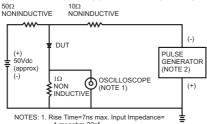
2. Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, Recover to 0.25A.

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RATINGS AND CHARACTERISTIC CURVES (HER1601PT THRU HER1608PT)

FIG.1- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



1 megohm 22pf
2. Rise Time=10ns max. Sourse Impedance

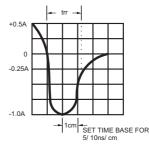
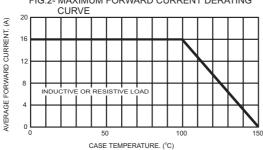
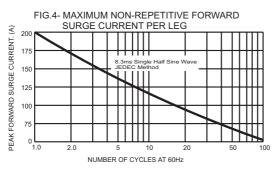


FIG.2- MAXIMUM FORWARD CURRENT DERATING

50 ohms





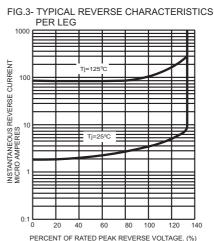


FIG.5- TYPICAL JUNCTION CAPACITANCE PER LEG

